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DATE MAILED: 07/30/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/629.716	07/30/2003	Ruey-Fa Huang	BHT-3117-147	6840
7590 07/30/2004			EXAMINER	
TROXELL LAW OFFICES PLLC			PHAM, MINH CHAU THI	
SUITE 1404 5205 LEESBURG PIKE		ART UNIT	PAPER NUMBER	
FALLS CHURCH, VA 22041			1724	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Comment	10/629,716	HUANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Minh-Chau T. Pham	1724				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed /s will be considered timely. In the mailing date of this communication. FD (35 U.S.C. \$ 133)				
Status						
1) Responsive to communication(s) filed on 30 Ju	ıly 2003.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 						
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the I	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti 11) The oath or declaration is objected to by the Ex-						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 1) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da	ate atent Application (PTO-152)				
Patent and Trademark Office	о) [Oulet					

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rolland (3,695,012).

Rolland discloses a filter assembly comprising a filter material (75) wherein the filter material is curved up and down continuously and formed with a corrugated structure, between every two curved portions formed a V-shaped air intake groove, and a frame (62) with an upper side of the frame having its outer lower edge formed with a straight vertical surface (63 & 64) extending upward and inward to form a current guiding surface (70 & 71) of a preset curve. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide a frame

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with curved sections as taught by Rolland since the curved section would guide the air stream toward the filter material inside the frame for efficient filtration.

Claims 3-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rolland (3,695,012), in view of Chapman (6,322,615 B1).

Claims 3-7 call for the filter material composed of a filter and a metallic gauze.

Chapman discloses a filter media (3) is sandwiched between a filter metallic gauze (1) on each side of the filter media (3). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide a filter metallic gauze as taught by Chapman on 2 sides of the filter media of Rolland so that the gauze would provide support for the filter media against a stream of air flow therethrough.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Adams et al (6,336,946 B1) disclose a pleat air filter.
- Kometani et al (5,720,790) disclose a filter element.
- Moll et al (5,679,122) disclose a filter for filtration of a fluid flow.
- Brixius et al (3,698,161) disclose an air filter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Minh-Chau Pham Patent Examiner

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